

# MATERIAL SAFETY DATA SHEET

XP LAB, INC.

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Phone (619)233-3111 Fax (619)233-3112

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Xp3D-MR

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Date: January, 2015  
MSDS: XP/9701-5

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## SECTION 1: PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

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PRODUCT NAME: Xp3D-MR Marine Fuel Additive

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EMERGENCY TELEPHONE NUMBERS: XP Lab, Inc. (619)233-3111  
Chemtrec USA (800)424-9300  
Intl. (703)527-3887

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## SECTION 2: HAZARDOUS INFORMATION

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<u>Controlled</u>	<u>% by weight</u>	<u>CAS #</u>	<u>TLV</u>
N/A			

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## SECTION 3: HEALTH INFORMATION AND PROTECTION

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### POTENTIAL HEALTH EFFECTS

**EYE:**

May cause moderate eye irritation which may be slow to heal. Vapors may irritate eyes.  
May cause moderate corneal injury.

**SKIN:**

Low order of toxicity. Prolong or repeated exposure may cause skin irritation. A single prolonged exposure may result in the material being absorbed in harmful amounts.  
Excessive exposure may cause hemolysis. Repeated minor exposure may result in absorption of harmful amounts.

**INGESTION:**

Minimal toxicity. Single dose oral toxicity is considered to be moderate.  
Small amounts swallowed incidental are not likely to cause injury.  
Swallowing larger amounts may cause injury.

**INHALATION:**

A single prolonged excessive inhalation exposure may cause adverse effect. Excessive exposure may cause irritation in the upper respiratory tract.

**TERATOLOGY (BIRTH DEFECTS):**

Birth defects are unlikely. Exposures having no effect in the mother should have no effect on the fetus. Did not cause birth defects in animals.

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## SECTION 4: FIST AID

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### EYE CONTACT

Irrigate with flowing water immediately and continuously for 15 minutes. If irritation persist, get medical attention.

### SKIN CONTACT:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated cloths and shoes. Call physician if irritation continues.

### INGESTION:

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Consult medical personnel.

### INHALATION:

Remove the affected victim from exposure. Remove to fresh air if effect occur. Consult a physician.

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## SECTION 5: FIRE FIGHTING MEASURES

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### FLAMMABLE PROPERTIES:

Flash Point:	148° F, 64.5° C
Method Used:	TCC
Autoignition Temperature:	471° F, 244° C

### FLAMMABILITY LIMITS

LFL:	1.1% Vol
UFL:	10.6% Vol

### HAZARDOUS COMBUSTION PRODUCTS:

During a *fire*, smoke may contain the original material in addition to toxic and/or irritating compounds.

Violent steam generation or eruption may occur on application of direct water stream to hot liquids. Vapor are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flashback may occur. Spills of these organic liquids on hot fibrous insulation may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

### EXTINGUISHING MEDIA:

Water fog or fine spray. Carbon Dioxide. Dry chemical. Foam. Alcohol resistant foam (ATC type) are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively.  
**DO NOT** use direct water stream.

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## SECTION 6: SPILL CONTROL PROCEDURE

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Eliminate all sources of ignition in vicinity of spill or release vapor to avoid fire or explosion. For large spill, warn public of downwind explosion hazard. Check area with explosion meter before reentering area. Ground and bond all containers and handling equipment. Prevent liquid from entering sewers. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust.

Recover by pumping (use an explosion proof or hand pump) or with an expert absorbent.

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## SECTION 7: HANDLING AND STORAGE

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### HANDLING:

Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. No smoking, open flames or sources of ignition in handling and storage area. Never use air pressure for transferring product. Electrically ground all equipment.

### STORAGE:

Keep containers tightly close when not in use. Store in carbon steel, stainless steel or Teflon containers.

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## SECTION 8: PERSONAL PROTECTION

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### EYE AND FACE PROTECTION:

Use chemical goggles. If vapor exposure causes eye discomfort, use a full-face respirator.

### SKIN PROTECTION:

Use protective clothing impervious to this material.

### RESPIRATORY PROTECTION:

Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required, use an approved air-purifying or positive pressure supplied-air respirator depending in the potential airborne concentration.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**SPECIFIC GRAVITY:** .900 @ 25°/25° C  
**SOLUBILITY IN WATER:** Infinitely @ 25° C  
**VAPOR PRESSURE:** 0.88 mmHG @ 25° C  
**VAPOR DENSITY:** (Air =1)4.10  
**FLASH POINT:** 150°F, 65.5°C Method: TCC  
**BOILING POINT:** 340F, 171C  
**VISCOSITY at 20 C (68 F):** 6.40 mPa.s or cP  
**VOLATILE ORGANIC COMPOUND (VOC) CONTENT:** 897 g/L or 7.49 lbs/gal as per Rule 443.1 of California SCAQMD.

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## SECTION 10: STABILITY AND REACTIVITY

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<b>CHEMICAL STABILITY:</b>	Stable under recommended storage conditions.
<b>CONDITION TO AVOID:</b>	Avoid static discharge.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Does not normally decompose.
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### ECOTOXISITY

Material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100mg/L in most sensitive species).

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## SECTION 12: ECOLOGICAL INFORMATION

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### ENVIRONMENTAL FATE:

Biconcentration potential is low (BCF less than 100 or Log Pow less than 3).

### BIODEGRADATION & PERSISTENCE

Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD greater than 40%)

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## SECTION 13: DISPOSAL CONSIDERATION

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May be disposed of in a secured sanitary landfill.

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## SECTION 14: TRANSPORT REGULATION

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DEPARTMENT OF TRANSPORTATION: **NOT REGULATED**

PROPER SHIPPING NAME: Combustible Liquid, n.o.s. (Middle distillate solvent)

HAZARD CLASS: Combustible Liquid

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## SECTION 15: REGULATORY INFORMATION

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Reportable Quantity: N/A

<b>NFPA RATING:</b>	<b>HEALTH</b>	<b>2</b>
	<b>FLAMMABILITY</b>	<b>2</b>
	<b>REACTIVITY</b>	<b>0</b>

TOXIC SUBSTANCE CONTROL ACT (TSCA):

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## SECTION 16: OTHER INFORMATION

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### **ENVIRONMENTAL FATE:**

### **SARA HAZARDOUS CATEGORY:**

**This product has been reviewed according to the EPA "Hazard Categories" promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definition to meet the following categories:**

**An immediate health hazard**

**A delayed health hazard**

**A fire hazard**

### **OSHA HAZARD COMMUNICATION STANDARD:**

**This product is a Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

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**All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory. NOTICE: The information presented in good faith and believed to be accurate as of the effective date shown above. However no warranty express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that their activities comply with federal, state or provincial, and local laws.**